

in which the depressions occurring in the surface of the magnet are filled by a filling agent having a particle size smaller than that of the depressions, thus substantially making the surface of the magnet level and reducing the surface roughness Ra to 3 microns or less, and, when a corrosion inhibiting coat of synthetic resin is applied to the surface, the surface of said corrosion inhibiting coat is made substantially smooth thus providing a surface roughness the same as that of the magnet, the effect of forming such an extremely level corrosion inhibiting coat being that the coat can be applied as thinly as 1 to 30 microns in thickness without defects such as pinholes or bubbles occurring, and the magnet has superior corrosion resistance as well as no danger of magnetic particles coming loose from the surface.

What ^{is} ~~we~~ claimed is:

1, A resin bonded rare earth magnet, compression molded from rare earth-transition metal alloy powder and thermosetting resin, comprising:

a magnet body comprising a mixture of thermosetting resin and rare earth-transition metal alloy powder with a particle size of between 20 and 300 microns;

a filling material with particle size between 0.1 and 15 microns which is used to fill in the depressions on the surface of said magnet and is then fixed with said thermosetting resin; and

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